Application No. 10/070,401
Title: GRAPHICAL USER INTERFACE AND METHOD RELATED THERETO
Amendment responsive to Office Action dated: December 17, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

<u>Listing of Claims:</u>

1.   (currently amended) A graphical user interface for the monitoring and/or controlling of a computer controlled dairy farm system, ~~or part thereof,~~ by a human user, said graphical user interface comprising [a] <u>at least one and another</u> computer based graphical and schematic representation of <u>a milking machine, a part thereof, a cow, or part thereof comprised in</u> said dairy farm system, ~~or part thereof,~~ wherein said <u>one and another displayed</u> representation<u>s</u> comprise[s] objects, each of which represents a respective ~~part~~ <u>one</u> of <u>the milking machine, the part thereof, the cow, or part thereof comprised in</u> said dairy farm system, ~~or part thereof,~~ and each having a spatial location in relation to the other object(s), ~~wherein said spatial location in relation to other objects(s) of the respective object is mapped~~ <u>which corresponds</u> to the spatial location of the ~~respective~~ represented ~~part~~ <u>one</u> of <u>the milking machine, the part thereof, the cow, or part thereof comprised in</u> said dairy farm system ~~or part thereof~~ <u>in relation to at least one other one of the group consisting of the milking machine, the part thereof, the cow, or part thereof</u>.

2.   (previously presented) The graphical user interface as claimed in claim 1, wherein

–   each of said objects has at least one associated physical property, wherein each said at least one physical property associated with the respective object

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is comprised among physical properties of the respective represented part of

said dairy farm system or part thereof; and

— each said at least one physical property which is comprised among the

properties of the respective represented part of said dairy farm system or part

thereof, is chosen from the group of size, shape, color, direction, movement,

amount, rate, and frequency.

3. (previously presented) The graphical user interface as claimed in claim 1,

wherein said graphical user interface comprises a schematic representation of an entire dairy farm

system, in which case said graphical user interface comprises objects representing parts selected from

the group consisting of each individual cow, fence, gate and apparatus in the dairy farm system.

4. (previously presented) The graphical user interface as claimed in claim 3,

wherein said graphical user interface comprises schematic status indications for at least one of said

objects selected from the group consisting of whether a cow has been milked or not, whether a gate

is opened or closed, and whether an apparatus is in use or not.

5. (cancelled)

6. (currently amended) The graphical user interface as claim in claim 51,

wherein said graphical user interface comprises schematic representations of the teats of a cow, or

teat cups that are attached to them, by four icons located schematically with a longer distance

between the icons representing the front teats or teat cups and a shorter distance between the icons

representing the back teats or teats cups.

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7.   (previously presented) The graphical user interface as claimed in claim 6, wherein the schematic representations of the teats or teat cups are associated with respective controls for starting milking or with respective status indications indicating milk yield during milking.

8.   (previously presented) The graphical user interface as claimed in claim 6, wherein said graphical user interface comprises schematic representations of the teat cups as detached at spatial locations, which schematically correspond to the respective spatial locations in the milking machine.

9.   (previously presented) The graphical user interface as claimed in claim 8, wherein each of the four icons schematically representing the teats of a cow, or teat cups that are attached to them, has a visual characteristic in common with the respective associated schematic representation of the teat cup as detached, in order to map each detached teat cup to its respective attached position.

10.   (currently amended) The graphical user interface as claimed in claim 5̶1, wherein said graphical user interface comprises schematic representations of an entry gate and of an exit gate, respectively, of said milking machine, at spatial locations corresponding schematically to the respective locations in the milking machine.

11.   (previously presented) The graphical user interface as claimed in claim 10, wherein the schematic representations of the entry gate and of the exit gate are associated with respective controls for opening and closing the respective gate or with respective status indications indicating whether the respective gate is opened or closed.

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12.   (previously presented) The graphical user interface as claimed in claim 6, wherein said graphical user interface comprises schematic representations of a rear plate and of a manger, respectively, of said milking machine.

13.   (previously presented) The graphical user interface as claimed in claim 12, wherein the schematic representations of the rear plate and of the manger are associated with respective controls for positioning the rear plate and the manger or with respective status indications indicating the location of the rear plate and the manger.

14.   (previously presented) An automatic milking machine comprising a graphical user interface as claimed in claim 1.

15.   (currently amended) A method for providing a graphical user interface for the monitoring and/or controlling of a computer controlled dairy farm system or part thereof, by a human user, comprising the step of:

–   displaying at least one and another [a] computer based graphical and schematic representation from a group consisting of a milking machine, a part thereof, a cow, or part thereof comprised in said dairy farm system or part thereof, wherein said one and another displayed representations comprise[s] objects, each of which represents a respective part one of the milking machine, the part thereof, the cow, or part thereof comprised in said dairy farm system or part thereof, and each having a spatial location in relation to [the] another of the object(s) of the respective object is mapped which

corresponds to the spatial location of the respective represented one part of the milking machine, the part thereof, the cow or part thereof comprised in said dairy farm system ~~or part thereof~~ in relation to the another of the group consisting of the milking machine, the part thereof, the cow, or part thereof.

16.   (previously presented) The method as claimed in claim 15, wherein

-- each of said objects has at least one associated physical property, wherein each said at least one physical property associated with the respective object is comprised among physical properties of the respective represented part of said dairy farm system or part thereof; and

-- each said at least one physical property which is comprised among the properties of the respective represented part of said dairy farm system or part thereof, is chosen from the group of size, shape, color, direction, movement, amount, rate, and frequency.

17.   (cancelled)

18.   (previously presented) The method as claimed in claim 17, further comprising the step of displaying schematic representations of the teats of a cow, or teat cups that are attached to them by four icons located schematically with a longer distance between the icons representing the front teats or teat cups and a shorter distance between the icons representing the back teats or teat cups.